

FIG. 1

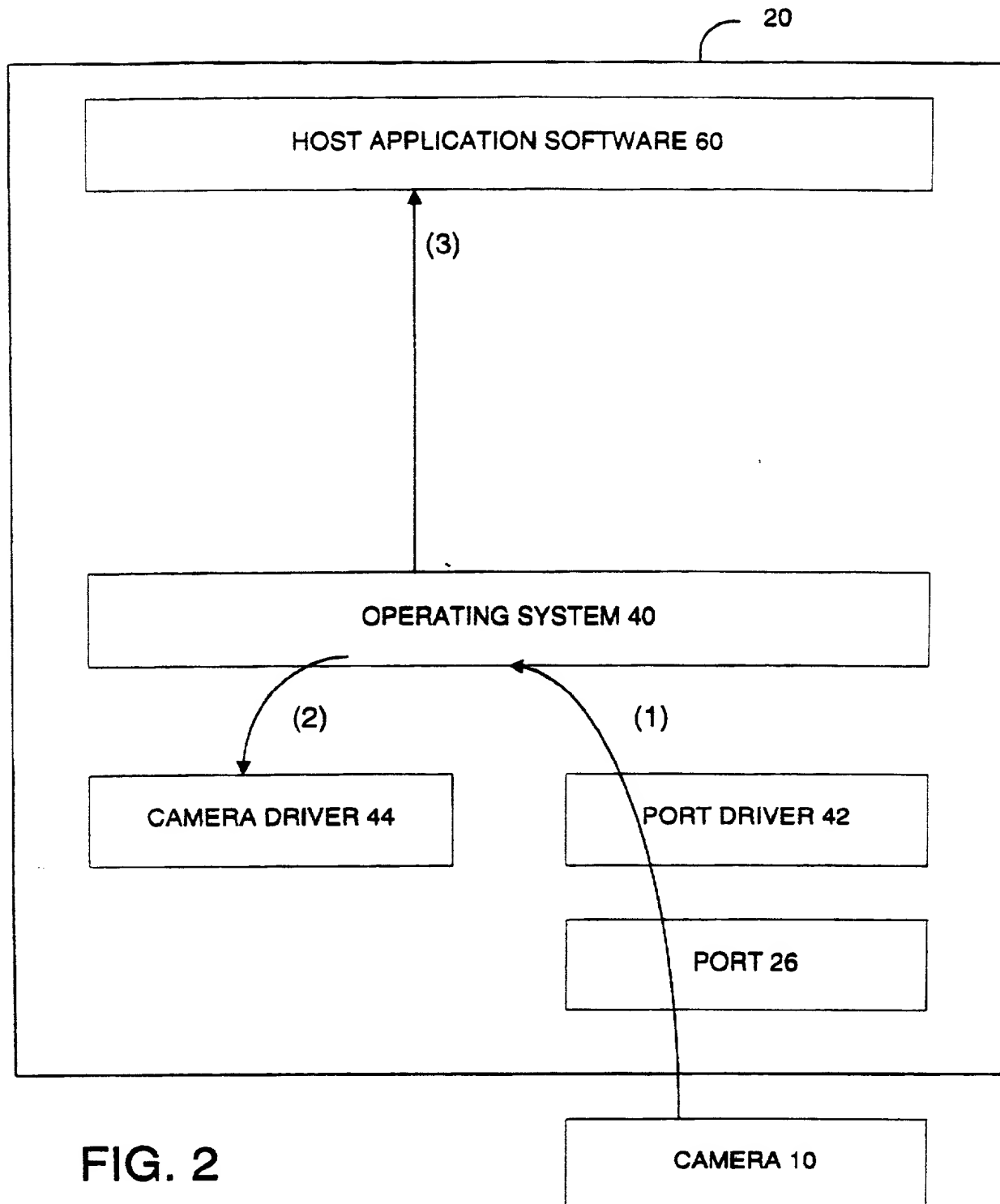


FIG. 2

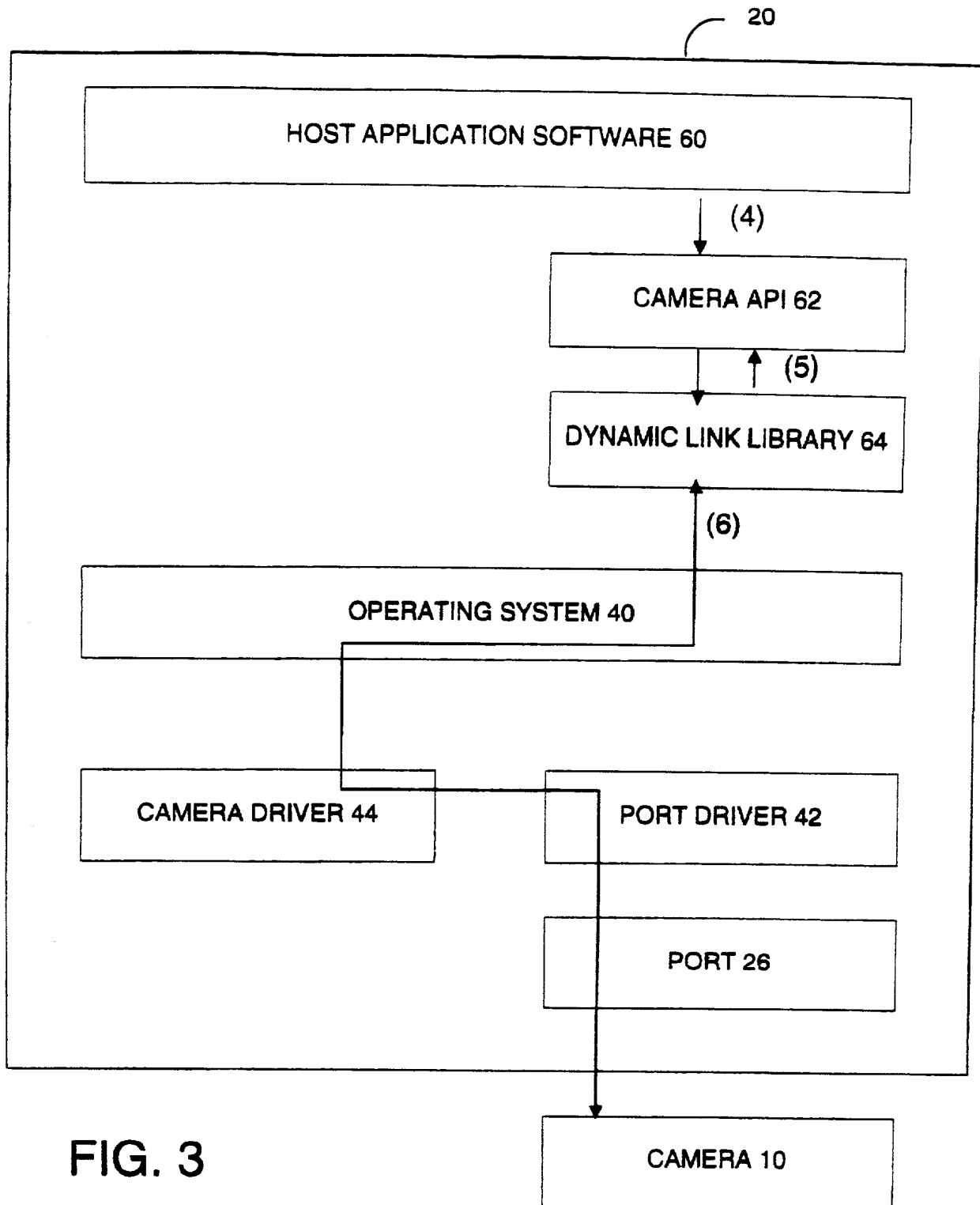


FIG. 3

OPERATING SYSTEM	HOST APPLICATION S/W	CAMERA API
Open Host Application S/W →	Create and Initialize CameraAPI → → → → Add main window to CameraAPI's callback list	Reset internal variables Load O/S dependent DLLs Create & start backgrd thread Insert a CM_SIGNAL_STATUS message into backgrd-threaded queue

FIG. 4

CAMERA API	HOST APPLICATION SOFTWARE
<b>CM_SIGNAL_STATUS</b> If Camera is not Open If OpenDriver() succeeds Close Driver() If message has not been sent before Signal all callback windows	→ <b>WM_CAMERAAPI_STATUS</b> If Message is CM_IS_CONNECTED OpenDriver()
<b>CM_OPEN_DRIVER</b> Open camera driver Check for compatible camera	←
<b>CM_GET_NO_OF_IMAGES</b> Returns number of images on camera	← Get number of images
<b>CM_GET_IMAGE_LIST</b> Returns list of image names and sizes	← If number of images > 0 Get Image List
<b>CM_GET_IMAGE_BY_NAME</b> Returns image with given name	← Download images. one-by-one

FIG. 5

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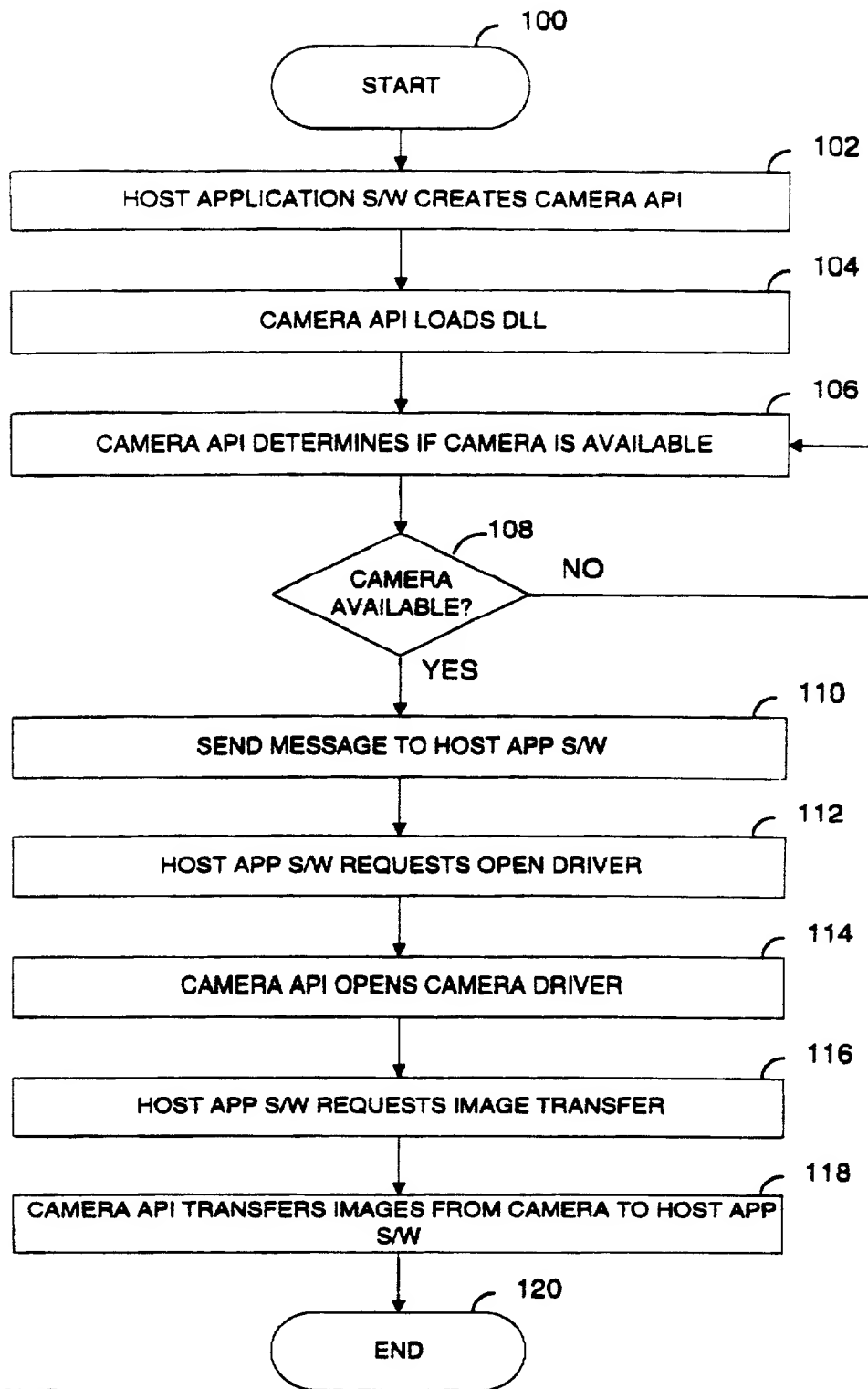


FIG. 6

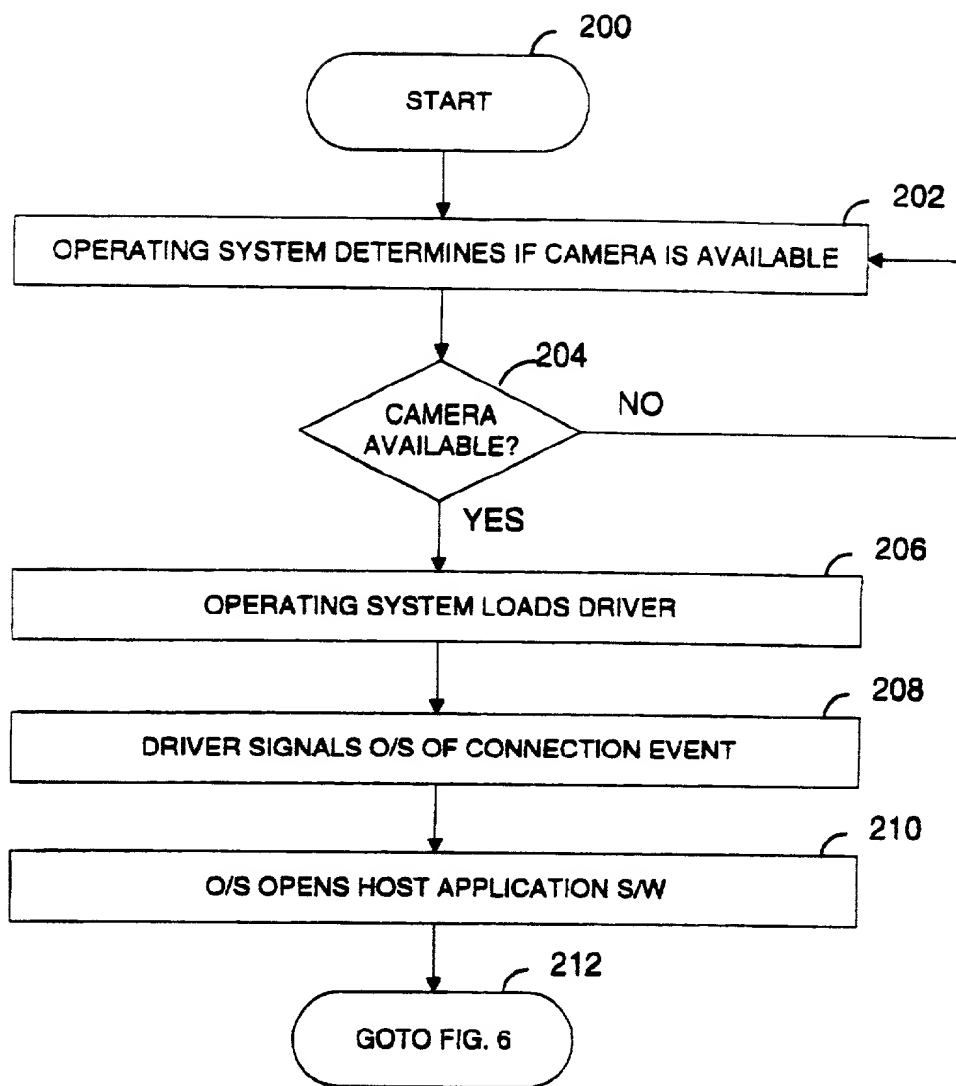


FIG. 7